GENERAL

III. SPECIAL NOTES

to run an east-west direction.

II. INTERSECTION OPERATION

PROJECT DESCRIPTION

This project involves the installation of a new Traffic Control Signal with street lighting and interconnect at the intersection of MD 28 (Norbeck Rd) and Wintergate Drive in Montgomery County. Hazard Identification Beacons shall be installed on the Westbound approache of Norbeck Road in advance of this intersection.

Video detection shall be used at this intersection. MD 28 (Norbeck Rd) is assumed

mode, with the MD 28 (Norbeck Rd) approaches running concurrently. An Exclusive/Permissive left turn phase shall be provided for the westbound approach of MD 28 (Norbeck Rd). Farside sampling stations shall be provided on both legs of MD 28 (Norbeck Rd) at this intersection.

2. A full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at

The intersection is to operate in a NEMA four-phase, semi-actuated

The Wintergate Drive approach shall run in its own phase.

65 L.F. 24" white heat applied permanent preformed 1. The Contractor shall be responsible for terminating all signal cables, thermoplastic pavement excluding interconnect, to the appropriate terminals and shall properly marking. label each cable. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. Contact Dr. Wilhelm Derminassian (240) 777-8795 seventy-two hours in advance of Traffic barrier w Beam using 160 L.F. 6' Post 3 EA Type C traffic barrier end treatment. 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility 21 C.Y. Furnish and install concrete for signal foundation. prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will G DARK PHASE 2 & 6 3 EA Pre-manufactured camera to controller (200' length) cable occur, the Contractor shall notify the Project Engineer immediately so that the DARK DARK conflict may be resolved. 2 & 6 CHANGE Furnish and install breakaway 1 EA pedestal pole (14'). PHASE 2 & 5 R DARK DARK ←G-/G ←G-/G The contact persons for District #3 (Montgomery County) 36 SF Relocate sign. WB RED WARNING R | FL/Y | FL/Y | **◆**G-/G | **◆**G-/G | are as follows: 3" electrical conduit riser (PVC). 15 LF Mr. Lee Starkloff Mr. Sonny Bailey R FL/Y FL/Y 2 & 5 CHANGE R R **4**-Y-/Y Assistant District Engineer - Traffic Sign Shop Furnish and install electrical 1150 LF Phone: (301) 513-7318 410-787-7670 cable - 5 conductor PHASE 4 R FL/Y (No. 12 AWG) Dr. Wilhelm Derminassian Mr. Wayne Mowdy 8037 Furnish and install electrical 140 L.F. 4 CHANGE R R FL/Y FL/Y R Assistant District Engineer - Maintenance Montgomery County cable - 1 conductor 240-777-8795 Phone: (301) 513-7304 (No. 250 KCMIL) FLASHING DARK | FL/Y | FL/Y | FL/R | FL/R FL/Y DARK FL/Y FL/Y OPERATION Wood sign supports 4"x6". 40 L.F. The power company representative is: Mr. Augie Rebish District Engineer - Utility Mr. Steve Custer Furnish and install No. 6 285 L.F. Phone: (301) 513-7350 PEPCO Customer Design AWG stranded bare copper 201 W Guide Dr., ground wire. Mr. Richard L. Daff, Sr. Rockville, MD 20850 1 EA 8047 Weatherhead, 3 inch Chief, Traffic Operations Division Phone: 301 548-4333 Phone: (410) 787-7630 Furnish and install 4" schedule 80 rigid polyvinyl chloride – 170 L.F. Mr. Ed Rodenhizer WIRING DIAGRAM Signal Shop Furnish and install 2" schedule 45 L.F. 410-787-7652 WIRING KEY 80 rigid polyvinyl chloride -7-CONDUCTOR ELECTRICAL EQUIPMENT LIST CABLE (NO. 14 A.W.G) Furnish and install 3" schedule 185 L.F. EQUIPMENT TO BE SUPPLIED BY S.H.A. AND INSTALLED 80 rigid polyvinyl chloride -BY THE CONTRACTOR. 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) Furnish and install 4" schedule 60 L.F. 80 rigid polyvinyl chloride -QUANTITY DESCRIPTION NO. H - 5-CONDUCTOR ELECTRICAL 1 EA Metered pedestal service. L.M.N.P 9042 Controller ASC II with telemetry 1 EA CABLE (NO. 12 A.W.G) Furnish and install electrical 35 L.F. 9044 Controller cabinet, size "6" 1 EA K - 3-CONDUCTOR ELECTRICAL cable 1-conductor No. 4 AWG CABLE (NO. 14 A.W.G) THHN/THWN. 1 EA 9086 Video detection interface equipment: 1-4 cameras L -2-CONDUCTOR TRAY Furnish and install electrical 5 EA A • G • K • M • (To be installed by signal shop). CABLE (NO. 12 A.W.G) handhole. 9570 Sheet aluminum signs to consist of: 34 SF M PRE MANUFACTURED CAMERA TO CONTROLLER CABLE (200') 34 SF Install ground mounted sign. (ground mount) A.D.K. W1-2R "CURVE AHEAD (Symbolic)" sign, (36" x 36") with hardware. 132 SF 1 EA Install overhead sign. L.M.N.P--STRANDED BARE COPPER GROUND 3 EA Video detector camera. WIRE (NO. 6 A.W.G.) W1-2L "CURVE AHEAD (Symbolic)" sign, (36" x 36") with hardware. 1 EA **←**B,C,F,O 27' steel pole and twin 50' (cut to 40')/50' mast arms. Q - 12-PAIR VOICE GRADE INTERCONNECT CABLE (SELF SUPPORTING) 1 EA W3-3 NEW "SIGNAL AHEAD" 1 EA A.B.C.D. J sign, (48" x 48") with hardware. Furnish and install 27' mast arm 1 EA R - 2-1 CONDUCTOR ELECTRICAL pole and 38' mast arm. B.C.O.P~ CABLE (NO. 4 A.W.G.) 132 SF 9571 Sheet aluminum signs to consist of: Furnish and install 27' mast arm pole and 60' (cut to 20') mast arm. 1 EA (mast arm or pole mount) S - 3 - 1 CONDUCTOR ELECTRICAL CABLE (No. 250 KCMIL) D3-2 "Wintergate Dr 2800>" sign, (variable x 16") mast arm, 1 EA Q 782465-4470 3660 L.F. Furnish and install 12-pair 783466-6403 → GROUND ROD communication cable, self-D3-2 "Wintergate Dr < 2800" sign, (variable x 16") mast arm. 1 EA supporting (overhead). PEPCO PEPCO 780465-2381 783465-0974 Furnish and install 250 watt 1 EA D3-2 "Norbeck RD 1 EA STATE OF MARYLAND HPS Luminaire with photocell. sign, (Variable x 16") mast arm **DEPARTMENT OF TRANSPORTATION** Furnish and install ground rod $-\frac{3}{4}$ " x 10". 8 EA STATE HIGHWAY ADMINISTRATION R3-3(5) mod"NO LEFT TURN (Symbolic) / 4PM-7PM MONDAY-FRIDAY EXCEPT 1 EA COIL 35' OF (3) 1 CONDUCTOR
CABLES (NO. 250 KCMIL) AT BASE—
OF UTILITY POLE FOR ELECTRICAL SERVICE. BUSES" sign (36"x24") mast arm. Furnish and install 12" vehicular 30 EA traffic signal head section R3-5R "RIGHT TURN ONLY" sign, (30" x 36") mast arm. 1 EA MD 28 AND WINTERGATE DR. 2 EA Cut, clean, galvanize and cap traffic signal structure. W3-3 "SIGNAL AHEAD" sign. (36" x 36") pole mount. 1 EA Furnish and install electrical 80 L.F. cable -5 conductor (No. 14 W3-3(2) "SIGNAL AHEAD/PREPARE TO STOP WHEN FLASHING" sign. (120" X 60") mast arm. 1 EA CONTRACT NO. AT7185185 Furnish and install electrical 515 L.F. __ DATE 6/15/05 SCALE <u>NONE</u> GUIDE SHIELD ASSEMBLY (36"x75") pole mounted. M3-4 "WEST"(30"X15") M1-5 "MD 28"(36"X36") M6-1 "left arrow"(30"X24") cable -7 conductor (No. 14 1 EA DESIGNED BY_____J.A. COUNTY MONTGOMERY Furnish and install tray 130 L.F. LOGMILE 15002828.33 cable - 2 conductor (No. 12 DRAWN BY_ STREET TRAFFIC STUDIES, LTD. CHECKED BY TIMS NO. <u>G536</u> GUIDE SHIELD ASSEMBLY (24"x51") pole mounted. M3-2 "EAST"(24"X12") M1-5 "MD 28"(24"X24") 1 EA F.A.P. NO. AC STPG-000S(934)E Furnish and install 15' 1 EA 400 Crain Hwy...N.Y. Glen Burnie,MD 21061 TOD NO. lighting arm for traffic signal structure. Ph (4/0) 590-5500 "right arrow "(21"X15") Fax (410) 590-6637 SHEET NO. 3 OF 3 DRAWING NO. TS NO. 4351GI WT65 4685gi.dgn PLOTTED: \$DATETIME\$
FILE: \$FILE\$

QUANTITY

3 EA

6 C.Y.

105 L.F.

410 L.F.

400 L.F.

EQUIPMENT LIST (CONT.)

DESCRIPTION

Test Pit Excavation

5" white heat applied

thermoplastic pavement

5" yellow heat applied

pavement line markings

Removal of existing permanent

permanent preformed thermoplastic pavement

permanent preformed

assignment.

marking.

marking.

Maintenance of traffic per

NO.

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

EQUIPMENT LIST (CONT.)

DESCRIPTION

wire,3/8" diameter.

base mount.

Furnish and install steel span

Install controller and cabinet

EQUIPMENT TO BE REMOVED

There is no signal equipment to be removed.

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

PHASE CHAR

QUANTITY

750 L.F.

1 EA